

In re Patent Application of
GREGG
Serial No. 10/079,729
Filed: FEBRUARY 21, 2002

In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

Claims 1-17 (canceled).

18. (currently amended) A system for making wallboard or backerboard sheets comprising:

a mixer for mixing materials for making aerated concrete;

at least one face layer supply;

a former downstream from said mixer for forming core material having opposing first and second major surfaces and comprising aerated concrete, and for securing at least one face layer from said at least one face layer supply onto at least one of the first and second major surfaces of the core material, said former comprising

a mold downstream from said mixer for receiving the materials for making aerated concrete therein and allowing the materials to rise and stiffen into a body;

an autoclave downstream from said mold for curing the body, and

a divider downstream from said autoclave for dividing the cured body into a plurality of cured sheets to serve as the core material; and

a conveyor and a sheet handler cooperating therewith for joining a plurality of the cured

In re Patent Application of
GREGG
Serial No. 10/079,729
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sheets together in end-to-end relation while
advancing the cured sheets along a path of travel;
and

a cutter downstream from said former for cutting the
core material and at least one face layer secured thereto into
a plurality of wallboard or backerboard sheets.

19. (canceled).

20. (currently amended) A system according to Claim
~~19~~ 18 wherein said former secures the at least one face layer
while the cured sheets are advanced along the path of travel.

21. (original) A system according to Claim 20
wherein said former secures first and second face layers on
respective first and second major surfaces of the core
material.

22. (currently amended) A system according to Claim
~~19~~ 18 wherein said at least one face layer supply comprises at
least one paper face layer supply.

23. (currently amended) A system according to Claim
~~19~~ 18 wherein said at least one face layer supply comprises at
least one moisture-resistant face layer supply.

24. (currently amended) A system according to Claim
~~19~~ 18 wherein said former comprises a bevel shaper for forming

In re Patent Application of
GREGG
Serial No. 10/079,729
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the first major surface of the core material to have beveled portions adjacent respective opposing longitudinal side edges.

25. (currently amended) A system according to Claim ~~19~~ 18 wherein said former further comprises an edge wrapper for securing the at least one face layer to extend around the opposing longitudinal side edges.

26. (currently amended) A system according to Claim ~~19~~ 18 further comprising a reinforcing fiber supply cooperating with said mixer for adding reinforcing fibers to the materials for making aerated concrete.

27. (currently amended) A system for making wallboard or backerboard sheets comprising:

a mixer for mixing materials for making aerated concrete;

at least one face layer supply;

a former downstream from said mixer for forming core material having opposing first and second major surfaces and comprising aerated concrete, and for securing at least one face layer from said at least one face layer supply onto at least one of the first and second major surfaces of the core material, said former comprising

a mold downstream from said mixer for receiving the materials for making aerated concrete therein and allowing the materials to rise and stiffen into a body, and

In re Patent Application of
GREGG
Serial No. 10/079,729
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a divider downstream from said mold for
dividing the body into a plurality of uncured sheets
to serve as the core material to which the at least
one face layer is secured, and

an autoclave downstream from said divider for
curing the uncured sheets, and

a conveyor and a sheet handler cooperating
therewith for positioning a plurality of the cured
sheets together in end-to-end relation while
advancing the cured sheets along a path of travel;
and

a cutter along the path of travel and downstream
from between said divider and said autoclave for cutting the
core material and at least one face layer secured thereto into
a plurality of wallboard or backerboard sheets.

28. (original) A system according to Claim 27
wherein said former secures first and second face layers on
respective first and second major surfaces of the core
material.

29. (original) A system according to Claim 27 wherein
said at least one face layer supply comprises at least one
paper face layer supply.

30. (original) A system according to Claim 27
wherein said at least one face layer supply comprises at least
one moisture-resistant face layer supply.

In re Patent Application of
GREGG
Serial No. 10/079,729
Filed: FEBRUARY 21, 2002

31. (original) A system according to Claim 27 wherein said former comprises a bevel shaper for forming the first major surface of the core material to have beveled portions adjacent respective opposing longitudinal side edges.

32. (original) A system according to Claim 27 wherein said former further comprises an edge wrapper for securing the at least one face layer to extend around the opposing longitudinal side edges.

33. (original) A system according to Claim 27 further comprising a reinforcing fiber supply cooperating with said mixer for adding reinforcing fibers to the materials for making aerated concrete.

34-40. (canceled).